

TECHSPEC® 10mm, Al & VIS 0°, High Tolerance N-BK7 Right Angle Prism



N-BK7 High Tolerance Right Angle Prisms

Stock **#47-594** **20+ In Stock**

⊖ 1 ⊕ £107²⁰

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Volume Pricing	
Qty 1-5	£107.20 each
Qty 6-25	£85.60 each
Qty 26-49	£80.00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Right Angle Prism **Type:**

Physical & Mechanical Properties

+0/-0.1 **Dimensional Tolerance (mm):**

Bevel:

Protective as needed

Length of Hypotenuse (mm):

14.10

Length of Legs (mm):

10.00

Optical Properties

Angle Tolerance (arcsec):

±15

Coating:

VIS 0° & Aluminized

Substrate:

N-BK7

Surface Quality:

40-20

Image Orientation:

Left-Handed

Coating Specification:

Hypotenuse: $R_{avg} > 85\%$ @ 400 - 700nm, $R_{avg} > 90\%$ @ 400 - 2000nm
Legs: $R_{avg} \leq 0.4\%$ @ 425 - 675nm

Ray Deviation (°):

90

Wavelength Range (nm):

425 - 675

Damage Threshold, By Design:

Hypotenuse: 0.3 J/cm^2 @ 532nm & 1064nm, 10ns
Legs: 5 J/cm^2 @ 532nm, 10ns

Power (fringes) @ 632.8nm:

1.25

Irregularity (fringes) @ 632.8nm:

0.25

Regulatory Compliance

RoHS 2015:

Compliant

Reach 219:

Compliant

Certificate of Conformance:

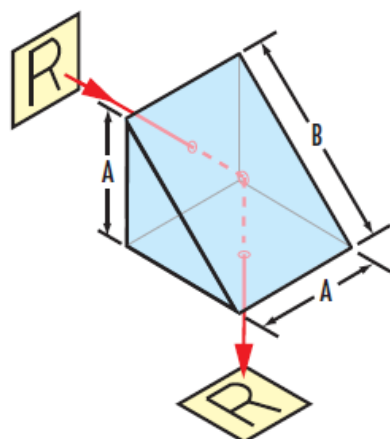
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Product Details

- Ray Deviation of 90°
- Left Handed Image
- Low Arcsecond Angle Tolerance
- Additional [Right Angle Prism](#) Options Available

TECHSPEC® High Tolerance N-BK7 Right Angle Prisms are generally used to bend image paths or redirect light at 90°. This process produces a left-handed image, depending on the prism's orientation, the image may be inverted or reverted. Right angle prisms can also be combined for image/beam displacement. TECHSPEC® High Tolerance N-BK7 Right Angle Prisms feature low arcsecond angle tolerance and are made from precision N-BK7 for use in a variety of visible light applications. These prisms are available uncoated, with a protective aluminum overcoat, or VIS° & aluminized.

Technical Information





Right Angle Prism Ray Path



Right Angle Prism Ray Path



Right Angle Prism Tunnel Diagram



Right Angle Prism Tunnel Diagram